
ANCHORAGE ARC

THE VOICE OF THE ANCHORAGE AMATEUR RADIO CLUB

Post Office Box 101987 Anchorage, Alaska 99510-1987 (907) 345-0719
-MAY 1984-

- MAY 5 Walk For Hope.
- MAY 11 General membership meeting, 7 PM at the UAA Consortium Library Building. Fred Toliver, KL7HM, will be showing slides from "down under".
- MAY 12-13 Mothers Day at the Sears Mall.
- MAY 16 AARC Board Meeting, 7 PM at the Northway Mall.
- MAY 19 MARA Ham Radio Flea Market. Kawasaki Corner in Wasilla. Call Mike Eppler, KL7ILA, 376-5554, for more info.
- JUNE 1 General membership meeting, 7 PM at the UAA Consortium Library Building. Roger, KL7HFQ, and Mark, KL7HD, will be presenting Slow Scan TV.
- JUNE 20 AARC Board Meeting, 7 PM at the Northway Mall.
- JUNE 23-24 FIELD DAY!

-IN THIS ISSUE-

-Our VHF Chairman answers your most asked questions on repeaters.
-A report on the Fur Rondy Gran Prix Races.
-The regular feature from our President, KL7CQ.
-KL7LO introduces us to the new VE's for Juneau.
-Daniel Stevens, KL7WM, the AARC Activity Manager, reports on the success of the 2 meter setup for the Iditarod.
-Also, assorted subjects appear in this months editorial. Everything from the VEC to micro-dot transmitters for the MOB. (Short for Mount Olympus Bees.

"The Voice of the Anchorage ARC" is published monthly by the AARC to further the cause of amateur radio as a hobby and public service. Subscription is available through membership in the AARC. Articles and photos are encouraged (and sometimes begged for) from all readers. Permission to reprint is granted with proper credits. SK

An informed source reports that Betty, KL7AP, is planning to fasten micro-dot transmitters on each of the MOB's. (Mount Olympus Bees). This is to help in tracking down any workers that get lost. If this is true, she will probably need help in assembling the transmitters. Ya got good eyesight?

THE VIEW FROM MOUNT OLYMPUS

As I sit here on the steps I can hear the buzz of the new Bees in their hives out in the back. The sun is shining and looks like a great Spring in Alaska.

Betty and I will have gone and returned from DAYTON! by the time that you read this. Roger and the rest of the V E C board have been ahrd at work preparing for the FIRST IN THE NATION VEC examination! This will be on April 17 for about 40 people at the FT. Rich class.

Betty and I went to Fairbanks and met with a joint meeting of the Borealis and Arctic ARC. We showed the film that we are taking to Dayton. We discussed the VEC program and explained how it would operate. We got forms to them to certify 5 VE's. The president of the club, Jim Gilmore - KL7SW is very active and anxious to see this program in Place. Fairbanks has scheduled their first examination for Sat. May

19. They will also be holding a Mothers Day event similar to ours, save that it will be on the weekend before Mothers Day on the same date we will be doing the Walk for Hope. I sent a few of our nice "Send a Message to Mom" signs up there for them to use. It will help them a little to raise the amount of traffic they will gather.

More good news: Many of you will have worked her by now- we now have a KL7YL and it went to a person of the right gender! the former WA0QIJ, Vivien. My congratulations to her.

Our Walk for Hope is coming up in May. KL7VT Jean is the chairman for Eagle River and KL7ITI, Bill is it for in town. Jean tells me that she has all the check-points filled, but could use a couple more on buses. She says folks have been real good on volunteering. This is the first main event she's been chairman of and is enjoying every minute of it. Bill has things under countrol for Anchorage and could also use 1 or 2 more volunteers for buses. As many of you may know, I have picked up a good many pledges for the WALK but could always use more. So if I haven't seen you at a club meeting and you are going to miss the next one why don't you phone the house here and let Betty, me or one of our house sitters (KL7LL - John or NL7CP Joe) know what your desires are. Remember, this is one of our own Alaskan causes for people here in Alaska. The money all stays right here at the local level.

Rod KL7SA has a real good start on the Field Day Raffle. Remember if you need a ticket, give him a call at home or call our newsletter editor KL7JGU. I understand he and Rod are having a contest to see who sells the most tickets. Please recall, there is a \$225 prize for the seller of teh most tickets. If any one is interested in trying for this then let Rod know and he'll see that you get tickets. Speaking fo Raffles, we need to start considering a chairman for the Flea Market Raffle, if we are going to have one. The tickets need to be ready for distribution on Field Day which is only a couple of months away. If iny one is interested in taking this project, please let me know. The Flea Market and Raffle are the MAIN fund-raising events for the year.

Elections are coming up at the June meeting. If you would like to run for a position let Harley KL7IZZ know. At this time we still need nominees for some positions. We will take nominations from the floor at the May meeting.

Mothers Day is coming up the weekend after the WALK for Hope. I have been in contact with Linda Johnson of the Sears Mall and she is looking to a GREAT Mothers Day event. She is having new signs printed. We will need lots of help on this one. The big problem, as usual, is getting the traffic out. If there is anyone who can help, give KIZAT, JD. a call. Goodluck and Farewell to Bob and Diana on their trip to China - it should be exciting.



Wise 73, Wilse Morgan KL7CQ; El Presidente

MESSAGES TO MOMS

Our biggest public relations extravaganza will be on Saturday, May 12 and Sunday May 13, Mothers Day. The venue of this undertaking is Sears Mall.

To the public, Ham Radio operators are a group of persons who exercise their jaws over the airways and interfere with TV reception. One way to dispel the public's misgivings is to demonstrate what Amateur Radio can do for them.

As in past years there will be an information, demonstration and transmitting area in the mall which must be assembled Saturday morning, manned for the two days and disassembled Sunday Afternoon.

The key to success in this endeavor are the volunteers. No special skills are required. Present your body and we will program your brain.

For information please call : Wilse (KL7CQ)
HM 345-1061
Wk 271-5317

Mel (WL7J)
HM 349-2489
WK 562-2860

F R I G I D N O R T H C O M P A N Y
1207 West 36th Avenue
Anchorage, Alaska 99503
(907) 561-4633

WE STOCK THE FOLLOWING ELECTRONICS PARTS:

ADHESIVES	CAPACITORS	TV MODULES
ANTENNAS	CHEMICALS	POWER SUPPLIES
ANTENNA ACCESSORIES	COILS	RESISTORS
ANTENNA REPL RODS	SURGE SUPPRESSORS	SEMICONDUCTORS
BATTERIES	CONTROLS	SOLDER & ACCES
BOOKS (SAMS)	FOCUS BLOCKS	TEST EQUIPMENT
CABLES	FUSES	TRANSFORMERS
RECEIVING TUBES	KNOBS	TELEPHONE ACCES

UPON PRESENTATION OF AMATEUR RADIO CLUB I.D., RECEIVE 20% OFF RETAIL PRICE. THIS DOES NOT APPLY FOR SPECIALS.

ANCHORAGE AMATEUR RADIO CLUB
GENERAL MEETING
April 6, 1984

The meeting was called to order at 7:15 PM by President Wilse Morgan KL7CQ. The usual introductions and general announcements followed.

The annual Walk for Hope will be held on May 5. Chairman Bill Reiter KL7ITI passed around a signup sheet for all those interested in helping with checkpoints and buses. Jean Belfield KL7VT volunteered to chair the Eagle River walk and also is seeking volunteers.

A signup sheet was circulated for those wishing to help with the annual Mother's Day 'Messages to Mom' effort to be held at the Sears Mall the weekend of May 12-13. Help is needed at the club station in the mall and also to help organize and handle traffic.

Field Day Raffle chairman Rod Maney KL7SA reported that the prizes for the raffle had been selected, and reported that Field Day would be held June 24 at Otter Lake on Ft. Richardson.

Harley Steward KL7IZZ, the Officer Nominating Committee Chairman, reported that nominations were still needed for the offices of President, Vice-president and Activities Manager.

Bob McKinnie AL7AW announced that the annual ARRL 'ham equipment' insurance drive was underway. Bob stated that this was the most comprehensive and least expensive of all insurance plans available for amateur radio equipment. He also reported that the insurance now covers up to \$1000 worth of computer software.

The following Life Members received their Life Membership Certificates:

Jean Belfield	KL7VT	# 94
Mary Weatherley	KL7NU	#105
Shari Runyan	AL7FJ	#108
Rick Runyan	AL7FI	#109

Bob McKinnie AL7AW reported that an electronics fair would be held June 12 - 14 at the Egan Convention Center. Major dealers are expected to be in attendance. Booths are \$400 each for those interested.

The annual Youth Fair will be held at Ft. Richardson April 19, from 12:30 to 3:30 PM. Volunteers are needed to represent the AARC.

It was announced that the first examinations in the nation to be given by Volunteer Examiners will be given on April 17. The VEs will give exams for Technician and General, and the FCC will give Advanced and Extra exams.

Membership Chairman J.D. Delancy reported that of the 381 paid members of the AARC, 68 per cent were ARRL members.

Fred Toliver KL7MM presented Wilse KL7CQ with a beekeeper's hat in honor of Wilse's 'new' pastime of beekeeping.

The program for the evening, the Pribilof Expedition, was presented by Dave Vogel NL7P. Dave gave an interesting and informative slide show and commentary about the Alaska DX Association's expedition to the Pribilofs and their attempt to gain new country status for the Pribilof Islands. David Stevens KL7EB reported that, unofficially, the DXAC had approved new country status for the Pribilofs.

It was announced that the annual party held at Anchorage Community College to honor the community's outstanding citizens would be held on April 20. J.D. Delancy will attend as AARC's Ham of the Year.

Following the drawing for door prizes, the meeting was adjourned at 9:50 PM.

Attendance - 94

Respectfully submitted,

Lance Dunbar AL7BK
Secretary

AARC FINANCIAL REPORT-APR 1984

INCOME		EXPENDITURE	
1001	129.00	2002	61.00
1002	17.00	2004	74.82
1003	2.00	2005	9.50
1004	30.00	2006	508.00
1009	75.00	2008	28.50
1011	22.00	2010	140.50
<u>TOTAL</u>	<u>275.00</u>	2014	23.00
		<u>TOTAL</u>	<u>845.32</u>

18 APRIL 1984

AARC VHF REPORT
FROM KL7IKX VHF CHAIRMAN

WELL LETS SEE THE SMOKE HAS CLEARED, SOMEWHAT ANYWAY.

THIS MONTH WE'LL TALK ABOUT A COUPLE OF THINGS THAT HAVE HAPPENED RECENTLY.

FIRST 146.16/76 THE KL7EKB REPEATER HAS GONE HOME, THAT IS TO SAY THAT WE HAVE RETURNED IT TO KL7EKB'S TOWER, NEAR JEWEL LAKE AND DIAMOND. I SUPPOSE TO MOST OF US DEL'S "TOWER" IS MORE THAN THE REGULAR TOWER. TO SEE IS TO MARVEL. ANYWAY, THIS REPEATER WILL SERVE ANCHORAGE, KENIA/SOLDOTNA, AND WITH YET TO BE INSTALLED BEAMS, THE HOPE, ALYESKA AREA. WE HAVE INSTALLED A BATTERY ON THE POWER SUPPLY TO PROVIDE BACKUP POWER SHOULD THE AC FAIL. THE UPLINK FOR MINCHUMNA/FAIRBANKS IS ON ORDER. WE WILL BE BUILDING THE INTERFACE LOCALLY, AND WILL PROBABLY BE ASKING FOR VOLINTEERS TO ASSIST IN THIS PROJECT. ALSO THE 146.22/82 WILL BE BROUGHT BACK FROM HOPE, RECRYSTALD FOR THE DOWNLINK, HELP WILL BE NEEDED FOR THIS PROJECT ALSO.

A COUPLE OF YEARS AGO I RAN AN ARTICLE IN ONE OF THE NEWSLETTERS OF WHICH I AM GOING TO REPEAT PART OF HERE AND NOW.

THIS IS A QUESTION AND ANSWER GENERAL REPEATER INFORMATION ARTICLE.

"Q" WHY MUST MY TOUCH TONE PAD BE SET FOR 3KHZ OF DEVIATION?

"A" RADIO DEVIATION CIRCUITS USE DIODES TO CLIP THE AUDIO LEVEL ABOVE A CERTAIN POINT. CLIPPING CAUSES DISTORTION. THIS DISTORTION CAN FOOL THE TONE DECODERS. 3KHZ FOR YOUR HIGHEST TONES(1) WILL NORMALLY MEAN 2.5KHZ FOR YOUR LOWEST TONES(1). FOR A RADIO SET FOR VOICE PEAKS OF +/- 4.8KHZ THIS +/- 3KHZ IS FAR ENOUGH BELOW THE CLIPPING LEVEL TO AVOID DISTORTION.

"Q" WHY +/- 4.8KHZ FOR PEAKS?

"A" MOST ALL AMATEUR REPEATERS WHETHER "COMMERCIAL" OR HOMEBREW ARE SET TO COMMERCIAL STANDARDS. IE: +/- 5KHZ. AT ABOUT 7 TO 7.5KHZ THE RECEIVER SQUELCHES OFF, THINKING THAT THE INCOMING AUDIO IS "WIDE BAND NOISE". +/-4.8KHZ ALLOWS .2KHZ FOR CTCSS (SUBAUDIBLE TONE) WITHOUT EXCEEDING THE INDUSTRY STANDARD.

REMEMBER THAT IN FM MORE DEVIATION IS NOT LOUDER, ONLY MORE DISTORTED, DUE TO THE CLIPPING.

"Q" WHY MUST I ID THE REPEATER BEFORE AND AFTER AN AUTOPATCH?

"A" THERE IS MORE THAN ONE STATION WITH THE CALL OF "KL7AA". BUT ONLY ONE IN THE 2 METER BAND WITH THE CALL OF "KL7AA/R". TO AVOID CONFUSION AND TO ALLOW THE TRUSTEE (BILL, KL7ITI) TO MAINTAIN THE LAWS GOVERNING AUTOMATIC PHONE PATCHES WE REQUIRE YOUR CALLSIGN AND THAT OF THE REPEATERS AT THE BEGINNING AND END OF EACH AUTOPATCH.

"Q" MUST I BE A MEMBER OF THE AARC TO USE THE 94 AUTOPATCH?

"A" THE AARC BOARD OF DIRECTORS MADE THE DECISION THAT THOUGH THE 94 MACHINE IS AN OPEN TO ALL MACHINE, THE PATCH IS RESTRICTED TO CLUB MEMBERS AND VISITORS. IT COSTS A GREAT DEAL OF EFFORT, TIME, AND MONEY TO OPERATE AND MAINTAIN THE REPEATER. ITS ONLY FAIR THAT THOSE WHO SUPPORT IT BE ABLE TO USE IT. AND THOSE WHO DON'T SUPPORT OUR MACHINE NOT BE ALLOWED TO BENEFIT FROM SOME OF ITS OPTIONS.

"Q" WHATS THE DOUBLE BEEP AT THE END OF A TRANSMISSION MEAN?

"A" WELL THE FIRST BEEP INDICATES THAT ONE OR MORE OF THE LINKS ARE ENABLED. I HAVE ASKED THE COMPANY IF WE CAN MAKE THE FIRST BEEP A PROGRAMMABLE OPTION (WHICH IT IS NOT AT THIS TIME). POSSIBLY WITH THE REVISED SOFTWARE WE WILL BE ABLE TO DO THIS. THE SECOND BEEP WHICH IS DELAYED BY 650MS. IS THE RESET OF THE TIMER. THIS ALLOWS OTHER USERS TO GET A FOOT IN THE DOOR, FOR EMERGENCY USE OR TO JOIN THE QSO.

"Q" WHAT'S LINKED TO THE 94 MACHINE?

"A" WE HAVE TWO LINKS IN USE. THE FIRST WHICH IS USER SELECTABLE TIES THE KL7AA/R 220 REPEATER TO 94. THIS IS USED FOR SPECIAL EVENTS, EMERGENCY'S, ETC.

THE SECOND LINK IS A 446.5 SIMPLEX LINK. TO FOSTER MORE USE OF THE 440 BAND. (REMEMBER TO NOT USE IS TO LOSE) AND TO PROVIDE A SERVICE WE HAVE TIED A 446.5 TRANCEIVER TO THE 94 MACHINE. THIS LINK HAS SOME INTERESTING FEATURES. FIRST YOU WILL NOT HEAR (OR BE ABLE TO USE) THE PATCH. WHEN A PATCH IS BROUGHT UP THE LINK IS DISABLED. SECOND YOU WILL ONLY HEAR QSO'S IN PROGRESS, NO VOICE ANNOUNCEMENTS ETC. WHEN PEOPLE ARE USING THE UHF LINK YOU WILL HEAR A DIFFERENT FIRST TONE BEFORE THE TIMER RESET. THIS ENABLES LISTENERS TO DECIDE WHERE THE SIGNAL IS COMING FROM. BY THE WAY THE 446.5 LINK IS USING A 1 WATT TRANSMITTER INTO A 9DB GAIN COLINIER ARRAY. AND IT COVERS ANCHORAGE QUITE WELL.

"Q" WHY DOESN'T THE REPEATER RESPOND TO ME WHEN I KERCHUNK IT?

"A" THE MICROPROCESSOR LOOKS FOR CARRIER AND AUDIO TO DECIDE IF THE SIGNAL IS A VALID ONE OR JUST "NOISE". REMEMBER YOU MUST ID WHEN YOU TRANSMIT. THIS REPEATER KNOWS THE LAW AND TRIES TO HELP OTHERS REMEMBER THE LEGAL WAY ALSO.

"Q" DO I NEED TO WAIT FOR THE VOICE ID TO FINISH BEFORE I CONTINUE A QSO?

"A" NO: THE REPEATER IS "SMART" IF YOU TALK WHILE A VOICE ID IS RUNNING THE MACHINE WILL SWITCH TO A LOWER LEVEL CW ID. THE ONLY TIME THE VOICE HAS PRIORITY IS DURING AN "AUTOMATIC CONTROL OPERATOR CHANGE OVER". THIS MESSAGE ONLY HAPPENS. IF THE TIME FOR THE CHANGEOVER OCCURS. AND A QSO IS IN PROGRESS, THEN IT WILL WAIT FOR THE INCOMING CARRIER TO DROP AND WILL INSERT THE MESSAGE BETWEEN USERS. OF COURSE IF YOU DON'T WAIT FOR THE COURTESY TONE'S. YOU MIGHT GET STEPPED ON.

"Q" WHO ARE THE CONTROL OPERATORS?

"A" BILL REITER KL7TTI (TRUSTEE)
BRYCE RUMERY AL7DL
J.D. DELANCY K1ZAT
MARTHA NEELEY KL7QS
DOUG DICKINSON KL7TKX

"Q" WHY SO MANY, IN FACT WHY ANY AT ALL? DO ALL REPEATERS HAVE CONTROL OPERATORS?

"A" WE TRY TO HAVE ENOUGH CONTROL OPERATORS SO THE AUTOPATCH IS ON AT LEAST 80% OF THE TIME. THE LAW IS VERY SPECIFIC IN ITS RESPONSE TO AUTOMATIC REPEATER STATIONS. SOMEONE MUST BE RESPONSIBLE FOR THE CORRECT AND LEGAL OPERATION. ALL REPEATERS HAVE AT LEAST ONE CONTROL OPERATOR.

"Q" WHAT MAKE IS OUR REPEATER?

"A" WE USE A GENERAL ELECTRIC "COMMERCIAL" MASTR PRO SYSTEM, SOLID STATE RECEIVE AND HYBRID TRANSMITTER (IE IT HAS "VALVES" OR "TUBES" AND TRANSISTORS) THE TRANSMITTER PUTS OUT 25 WATTS OUT OF THE DUPLEXER. THE RECEIVER IS RATED AT .35UV/12DB SINAD (THE INDUSTRY STANDARD WAY TO DEFINE SIGNAL TO NOISE SPECS RELATED TO RECEIVERS)

ONE FINAL THOUGHT FOR THIS MONTH. WE STILL HAVE WEAK SIGNALS INTO THE REPEATER. SOME STILL THINK THIS IS THE FAULT OF THE REPEATER. THIS LAST WEEKEND WE HAD A GENTLEMAN FROM SOLDOTNA USING OUR MACHINE. AS A TEST HE REDUCED POWER TO 100MW OUT OF THE TRANSMITTER, INTO 150' OF RG-8 COAX AND INTO A 9DB GAIN ANTENNA. HE WAS NEARLY FULL QUIETING INTO 94. THE MORAL TO THIS TIDBIT, ANTENNA'S MAKE THE DIFFERENCE IF YOU DON'T WANT TO RUN DECENT POWER. (RUBBER DUCKY'S ARE NOT DECENT!)

THE QUESTION FOR THE MONTH: WHEN WAS THE LAST TIME THE DEVIATION, FREQUENCY, OR POWER CHECKED ON YOUR RADIO'S? COMMERCIAL STANDARD REQUIRES ONCE A YEAR, FOR FREQUENCY, DEVIATION, AND POWER. I DARESAY THAT AMATEUR EQUIPMENT WHICH FOR THE MOST PART IS NOT BUILT TO COMMERCIAL STANDARDS RECEIVES EQUAL OR WORSE TREATMENT THAN COMMERCIAL RADIO'S. MANY PROBLEMS CAN BE SOLVED BY A SCHEDULED MAINTANCE CHECK. THINK ABOUT IT. THERE IS A SOLUTION TO THE WEAK SIGNAL PROBLEM. COMPLETE COVERAGE OF THE ANCHORAGE BOWL. ITS CALLED A RECEIVER VOTING SYSTEM. MORE ABOUT THIS SYSTEM IN A FUTURE ISSUE.

THIS PROBABLY WILL BE MY LAST REPORT FOR THE SUMMER, SINCE I BEGIN A FIVE MONTH FIELD DAY, VERY SOON.

73'S FOR NOW...DE KL7TKX

THREE nurses from Fairbanks are looking for a place to house-sit from mid May to mid August. If you can help, call Bill Crandall, NL7AY, at 488-6065.

FOR SALE: 1000' of 213 coax...50¢ per ft...10% discount for 100'. 20% discount for 200'. Call Daniel, KL7WM, at 274-3051.

ANCHORAGE AMATEUR RADIO CLUB
BOARD MEETING
April 18, 1984

Presents: President Wilse Morgan KL7CQ; Past President Bob McKinnie AL7AW; Activities Manager Daniel Stevens KL7WM; Secretary Lance Dunbar AL7BK; Treasurer Fred Wegner KL7HFM; Trustee Bill Reiter KL7ITI; Board Members Martha Neeley KL7QS; J.D. Delancy K1ZAT; April Delancy AL7CU; Tim Pettis KL7WE; Jim Larsen AL7FS; Art Taylor KL7SK; Mel Warner WL7J; David Stevens KL7EB. Absents: Vice President Bryce Rumery AL7DL and Board Member Betty Rhodes KL7AP. Also present: VHF Chairman Doug Dickinson KL7IKX; Newsletter Editor Jay Jennings KL7JGU; Bill Balzarini KL7BB; John Orella KL7LL; Vince Vanderhyde WL7K; David Epstein KL7LO.

The meeting was called to order at 7:11 PM by President Wilse Morgan KL7CQ in the Community Room at Northway Mall. Visitors John Orella KL7LL from Bethel, Vince Vanderhyde WL7K and David Epstein KL7LO, both from Juneau, were introduced.

The minutes of the previous Board and General meetings were read and accepted.

Witse announced that the Nominating Committee was still looking for candidates to run for the offices of President, Vice-President and Activities Manager.

VHF Chairman Doug Dickinson KL7IKX reported that the 146.16/76 repeater would soon be moved from Hope to the QTH of Del Wolfington KL7EKB. Beams pointing down Turnagain Arm will be installed on Del's tower to provide coverage in that direction and a vertical will be used for local coverage.

Doug also reported that the voice synthesizer board had arrived from Advanced Computer Controls for the 34/94 machine, and that a digital voice recorder would cost about \$760, and would allow the use of any message desired on the repeater, and, in the long run, would be far less expensive than having specific messages burned into ROMs at a cost of about \$200 per message.

Doug stated again that 34/94 was working 'great' and that all of the problems people have been complaining about are due to the use of 'Rubber ducks' on low power HT's from less than perfect locations. He stressed the importance of using an outside antenna whenever possible, especially downtown around tall buildings.

Treasurer Fred Wegner KL7HFM circulated the treasurer's report and explained some of the entries. He noted that the prizes for the Field Day Raffle had been purchased.

Fred also announced that the Nunaka Valley Little League had requested support again this year. Art Taylor KL7SK moved that we donate \$250 to them. After a second by K1ZAT and no discussion, the Board approved the donation by unanimous vote.

Further discussion on the upcoming annual elections revealed that Daniel Stevens KL7WM has agreed to run for President.

Discussion was held regarding preparations for Mothers' Day. John Orella will enclose the OSL Board in plexiglass, new signs have been made and message blanks have been printed. Bob McKinnie AL7AW will work to get the club trailer out of the snow in his yard and other equipment will be rounded up. Traffic from Sears Mall will be transmitted to Mt. Olympus for retransmission to the Lower 48.

Witse announced that J.D. has been nominated for the Governor's Volunteer of the Year Award and read the letter of nomination, which was prepared by David Epstein KL7LO, to the Board.

Newsletter Editor Jay Jennings KL7JGU was commended by the Board for the outstanding job he has done. Jay will also include an article on the first examinations given by Volunteer Examiners in the May newsletter.

Witse noted that the call sign KL7YL has appropriately been issued to Vivian Johnson.

Jean Belfield KL7VT, the chairperson for the Eagle River Walk for Hope, reports that all is in readiness for the Eagle River walk.

Anchorage Walk for Hope Chairman Bill Reiter KL7ITI announced that there would be a meeting Friday, the 20th, and that he still had a couple of holes to plug.

Witse noted that the Raffle tickets for the annual Flea Market raffle must be printed by Field Day.

Vince Vanderhyde WL7K, past president of Juneau ARC, has challenged Anchorage ARC to a Field Day Contest. The losing club must present the winning club with a "nice" trophy. The Board enthusiastically accepted the challenge.

Membership Chairman J.D. Delancy K1ZAT reported that as of March 23, there were 382 paid up members of AARC, of which 120 were Life Members and about 2 dozen more making payments toward

Life Membership. Additionally, 258 AARC members were also ARRL members, including 45 Life ARRL members, reflecting a 68% ARRL membership in the AARC.

GTE has contacted the club regarding the club listing in the telephone directory. It was decided to continue to have a listing in the White Pages only, and not be listed in the Yellow Pages under the 'Clubs' heading.

McDonald's has asked the club to give a demonstration of club activities. Daniel Stevens KL7WM will handle.

J.D. reported that the 440 MHZ link to the 34/94 repeater was up and operating on 446.5 MHZ. J.D. also donated the 4-bay antenna being used on the link to the club.

Daniel Stevens KL7WM reported that he is still trying to get volunteers to man checkpoints for the Girls Club Tricathlon.

Daniel also mentioned that the Club Social will be a bowling party on April 21, at 6:00 PM at Jewel Lake Bowl.

There being no further business, the meeting was adjourned at 8:50 PM.

Respectfully submitted,

Lance Dunbar AL7BK
Secretary

NOTES REGARDING THE "CHEAP" IC-2A Modification

Last month in the newsletter, Bryce Rumery, AL7DL told of the possible modification in the ICOM IC-2A hand held that will allow the user to see when his radio was receiving or not. The modification eats up very little power and is very handy at times, especially during late night bunny hunts in Corvallis. However, there is something wrong with the mod that should be corrected.

Modifying the hand held is an easy task. Mr. Rumery suggests that you place a 1.8K Ohm resistor between pin three of the IC#2 (the audio amp) and the anode of the "Send/Battery" light. This will turn the LED on when the radio is receiving, but it will also turn the audio amp on while transmitting!! The resistor provides a current path back to the IC that will bias up the audio amplifier. Oh, sure there's nothing to hear when you're transmitting so what the hay?? Not really. If you experiment with different values of resistance, you will see different intensities show up. (Ohms Law: the higher the resistance, the lower the intensity). When transmitting, the speaker will start to make very low frequency clicks. This is the audio amplifier trying to turn on. Depending on what value resistor, the amplifier may turn on, it may not, or it may just click on you. There is an easy way to prevent this. Place a standard switching diode, such as a 1N914 or whatever in series with the current limiting resistor. Place the cathode towards the anode of the LED. This will prevent the audio amplifier from seeing any stray voltage while the radio is transmitting. Be sure to remember that the diode has a 0.7 Volt drop through it, so you will need to use a slightly lower value resistor. I have a 2.2 K Ohm in my radio and it works fine. From all the radios I have modified, the 2.2K or 1.8K with the diode in series works well.

Roger D. Hayward, KA7EXM, OSU, Corvallis

TAKEN FROM:
Oregon Tualatin Valley
Amateur Radio Club News.

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Amateur Radio Club News.

FROM THE DESK OF 'JGU

The BIG NEWS this month... (the dots are to build up the suspense) is that the AARC VEC held the first amateur exams in the nation on April 17, 1984. I do not have the exact figures, but about 40 people took the exams. The FCC administered the Extra Class and Advanced tests, and the VEC took care of the General and Tech. It was a success all the way around, many people upgraded including most of Wilse Morgan's class. The VEC and the FCC were surprised at how much paperwork was involved, but that's the price you pay for fame. The whole proceedings were photographed and video-taped and will probably be in at least one national publication in the near future. We will include a complete list of all those who upgraded/got licenses next month.

A special "yahoo" goes to Bonnie Jennings (my mom!) for getting her Technician Class license. And after she was so positive that she would never understand the theory, or be able to discern an "a" from an "n". We are now working on my younger sister, Ellie.

Congratulations to Joe Kile, NL7CP. He is the new PIO for the Alaska Division of the ARRL. PIO stands for PUBLIC INFORMATION OFFICER. As I understand it, he will be responsible (a big word, Joe) for getting news of the AARC into QST. I am sure that he would appreciate calls from you if you have ideas or articles.

Speaking of articles (nice segue, huh!), don't think that you need any kind of training to put an article in the newsletter. If you made a new antenna that works well, or thought of a better way to do something, then you qualify. You could even just give me notes, and I will turn it into... (heh heh heh) an article.

Now to the subject of club activities. If you missed the club social in April, the bowling party, you missed a good thing. About 83 people were there. If you would like to get involved with some of the club activities such as the Walk For Hope, Field Day, Dog Races, etc., then let someone know! Don't worry about not knowing "how to do it", because several people will let you know (several different ways!). I am really excited that I am able to operate on 2m now, because I can now help out with activities that involve communications. I will be manning a checkpoint for the WFH, helping with the Girls Club Tri-athlon (more people are needed), and I am looking forward to all upcoming activities.

Not just club functions, but if you need help with a tower, or anything else, don't hesitate to give me a call. I am moving in the middle of May, so my phone number will probably be changing, but I monitor 34/94 most of the time.

And finally, the most important subject of all...RAFFLE TICKETS! You want some? Give me a call. I may even be persuaded to deliver them. HM 344-6258 WK (Mid-6AM) 563-4334. I've got the lucky ones!

Jay—KL7JGU

Special note to Techs...Don't forget HF!

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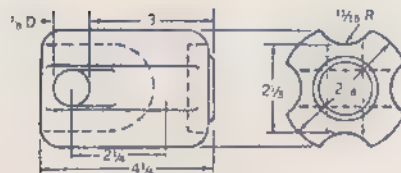
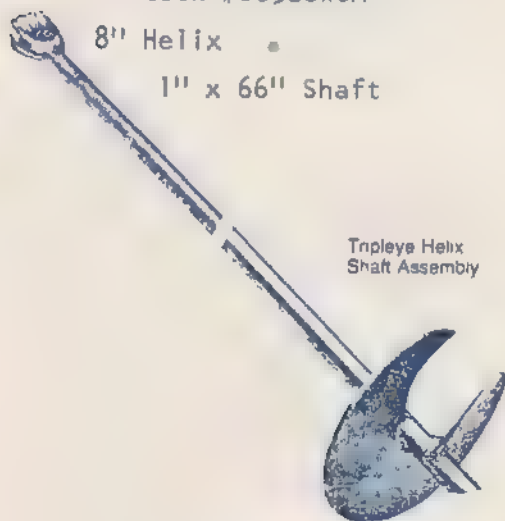
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OUR MAN IN JUNEAU
David Epstein KL7LO

This month featuring, "Meet your Juneau Volunteer Examiner Team (VET)"

True it is that when I moved to the Great Southeast a year ago, I did not escape the grasp of the Living Legend (bless'd be He), for he hath seen to fit call once again upon Little Buddy, this time to round up the Volunteer Examiner Team for Southeast. And once again, I have heeded the call. Here is my report.

Vincent A. van der Hyde WL7K is the past President of the Juneau ARC. He lives on prestigious Meander Way, and has a big monster beam sitting pretty atop the roof of his chic abode. He works 'em all, then crows about it and makes all those who haven't yet snatched the rare DX generally miserable. So you see, he is perfectly suited to the task of volunteer examiner! In all seriousness, Vince is a great guy and I'm glad I could talk him into this honorable effort.

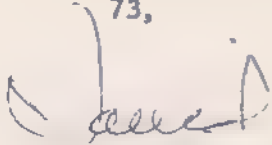
Michael Sakarias KL7KE has been in Juneau about as long as yours truly. You fellow net-watchers will remember Mike as the "Voice of Goodnews Bay" when he and Ann Fuller KL7KD were out there at the school. Now they join me as happy dwellers in Los Menden-Angeles. We all drive through the smoke in the winter time. But who's complaining? Welcome aboard, Mike!

Clark R. "Rory" Davis N7CR was also easy. He works for the state (I believe), and travels around Southeast a lot. Saw him on a flight from Sitka last summer as he was coming back to town from installing a community television antenna down south of Ketchikan. Rory really loves the hobby, and is always building lots of neat stuff. He's got to be all right insofar as he owns an operable Model 28 TTY. Mine's still in the garage! Thanks for signing up, Rory!

David B. Epstein KL7LO. 'Nuff said.

That's it, folks. Once we get going, we're really gonna wow 'em! Already there's interest in this thing, because I got a call from KL7XX in Gustavus last week, he wants to take an exam. Who was the wise guy/gal that gave the FCC my name and phone number? Looks like we're going to have to get serious about this right now!

See you next month!

73,

David KL7LO

The Rony Grand Prix Races gave the Anchorage Amateur Radio Club another public event to cover in 1984 and display our communications abilities. The past several years the React group had covered race communications but their ranks have diminished to the point that it was a problem for them. They did however provide initial guidance and contact with crowd control personnel supplied by Barnes Security. Hams covered the corners, pits, race control in room 2063 in the Westward and the media in room 2163. The reports received from the race steward, flagmen and course marshall were that communications were the best they'd ever had. We operated on 146.55 mhz simplex which covered the area very well. Corner operators were: KL7HFQ Roger, KL7SK Art, WL7J Mel, NL7CP Joe, NL7BJ Paul, NL7CT Adam, KL7VC Fred, NL7BE Fenton and WB7QAE Brian. The start/finish line and pits were covered by KL7SE and KL7TL Fred and Pat. Ben WL7AYX was there both days as handy-helper and Bob AL7AW was in room 2163 with Ron Moore. Mineself KL7DU was in race control. It was observed that there are those in town that spend more \$ on their hobby, make more racket and abuse their equipment worse than hams. We will probably be invited back again next year.

Ed, Kangaroo's Live 7 Decades Usually

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IT SHOULD BE NOTED THAT I AM ON ACTIVE DUTY WITH THE UNITED STATES COAST GUARD AND HAVE RECEIVED MY OFFICIAL ORDERS TRANSFERING ME, FOR THE FINAL 2 YEARS OF MY CAREER, TO KH6-LAND. I WILL BE LEAVING IN SEPTEMBER AND WILL CLOSE OUT THIS BUSINESS IN JULY. UP TO THAT POINT, I WILL BE HAPPY TO OFFER YOU THE BEST POSSIBLE PRICE ON ANY PIECE OF AMATEUR EQUIPMENT THAT I CAN FIND. OF COURSE, BASED ON THE ABOVE, I DO NOT TAKE TRADE-INS. HOWEVER, IF YOU HAVE SOMETHING TO SELL, LET ME KNOW AS I DO GET MANY REQUESTS FOR USED GEAR. NO CHARGE FOR THE SERVICE.

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 KL7IDT - RICK BRUCKER

IDITAROD 2 METER LINK

1984 Iditarod is history. It was alot of fun. But what I think made this year's Iditarod so great wss the 2 meter link. It started last year after the race. George Gallis, AL7BX, had a great idea, and that was to use 2 meters throughout the trail, which has been historically HF communication. George talked with Ken Delp, KL7FD, who is the head of communication for Iditarod, about the idea. Later they got together with Tim Pettis, KL7WE, and studied maps of the trail area looking for sites and propagational routes. Tim is a wealth of information and was a great help throughout the whole 2 meter link operation.

The decision from these meeting was to try three Alascom sites along the Iditarod trail, and link these sites back to Anchorage by satellite. There were several other plans to help improve communication along the Iditarod trail also. One was to use ham satellites from the trail back to Anchorage. The problem with that is most people do not have satellite gear, or know enough about using the satellite to use it. One has to time the windows and know the orbits and be able to aim an antenna at the satellite for communication. Another idea was to use meteor burst, but this also has the equipment and knowledge problem.

I had heard many stories about Iditarod communications, but then I met Ken Delp in the first of December and talked alot of things out. That is when I found the 2 meter link idea. Ken wanted to use one hundred to three hundred watts at each site to see how far the communication would reach. I tried to contact Ken several times during December. Ken came to the January AARC club meeting. There Doug Dickinson, KL7IKX, gave a meteor burst talk. It was very good. Ken decided to follow the meteor burst idea, and let me, Daniel Stevens, KL7WM, organize the 2 meter link idea. Meteor burst equipment was very expensive and unavailable.

As all know, an idea is an idea and just an idea until someone takes that idea out of the imaginary and through alot of work puts that idea into reality. I put a request on the RACES net for volunteer equipment. We needed three 2 meter rigs that would run off 110 Volts, three high powered lenears amps, and six eleven element beams for 2 meters. The plan was to use two beams at each site, one looking up the trail and one looking down the trail. John Shull, W4IGM, volunteered his only working 2 meter rig. If it wasn't for people who make sacrifices like this the link would not have happened. John also volunteered two 100 watt lenears that we did not use. David Cloyd, KL7M, told me of a lenear he had sold to Tom Owens, KL7GUH. I contacted Tom and he loaned that lenear for the link project. I had brought a rig from David Meye, KL7QW, to be used. Then Nele Fredstrom, KL7HKP, volunteered a rig and power supply. I borrowed my father's HF power supply and loaned my HF power supply. We were almost ready with the equipment. Iditarod had sliced the communication budget, but Ken Delp decided to go ahead and purchase six beams and coax from Tim Pettis.

It was now February and time was wasting fast. Tim Pettis and Peter LaPlante, W7SOV, were working on the terminal units for Anchorage and the trail sites. George Gallis was making the mike interfaces for the 2 meter rigs. And I had to collect all the ham gear and get it to Tim to be tested. First we set up the McGrath set. It included two eleven element beams, my Kenwood 7950 2 meter rig, my HF power supply, a mike interface, and a satellite interface. IT TESTED PERFECT! This gave all of us courage. There was a problem with two of the lenears we had. They needed either a DC

IDITAROD LINK (CONT.)

signal in the feedline or a carrier operated relay to switch from receive to transmit. I installed a carrier triggering circuit in the lenears, but it was too sensivity and we ran out of time, so we didn't use them. The next set had two beams, a Drake 2 meter crystal rig, a mike interface and the satellite interface. We needed ham rigs that would come back up on frequency if they lost power. Although we were in Alascom sites, there are ocasional power outages. The Drake set went to Galena. The third set was an Icom 255A, two beams, a mike interface, and a satellite interface. With each set I send an HF power supply. Galena also got the lenear.

Tim took care of the shipment and the installation, Harvel Young, KQØG, did the job in McGrath. Two non-hams installed the gear in Galena. They got a bracket welded to hang the antennas on, but hung the antennas so high that the coax just made it into the room. The Henry lenear had to hang by the coax. It is a good thing that the lenear is very light weight. Ed Trump, AL7N, from Nome and Tim Pettis gor together and set up the Unalakeet gear. Tim says he does not like standing on frost covered metal holding someone as the other person reaches as high up as he can to put up the antennas. There was nothing high to hang the antennas on in Unalakeet. Tim said he was surprised Shaktoolik could work into Unalakeet. The signal had to go through the power house building.

By now you are probably wondering how this all worked. IT WORKED VERY WELL. The trail frequencies were 146.52 with 45 watts in McGrath, 146.55 with 50 watts in Galena, and 146.58 with 25 watts in Unalakeet. All were on simplex. There was a little HF problem at the Iditarod ham headquarters, but we fixed most of it. Ken Delp, the head of Iditarod communication, said, "It was the best year ever for hams!" I take that as a BIG COMPLEMENT, not just to the hams involved with the link, but to all eighty or more of us that helped with the radio communication. There are still several check points the 2 meter link and repeaters didn't cover, but that is something for next year.

J. D. Delancy said with 100 watts he thinks Rainy Pass can work the 90/30 repeater. The Cripple and Sulatna check points are still HF stations. Jiff Hittson, N5CSO, in Nulato and Bimji Minard, KL7NG, in Kaltag both got into the link when they turned their beams from hortizontal polarization to vertical polarization. Jiff Hittson has already requested to come back to Alaska for next year's Iditarod. He said he never had so much fun. A complaint about the link was that McGrath had to go through Anchorage HQ to talk to Galena. Tim Pettis said he ran out of time this year, but he would set the link up so every site can talk direct to each other.

I don't believe that the link will do away with HF on the trail. HF plays a large role in traffic handling in the past and is still important with phone patches. The 2 meter link does open the trail to technician class licensed operators, and the check points will be easier to fill. The two big changes this year was the addition of the link and putting the hams with the Iditarod HQ people. This resulted in faster, and more consistant information. When HF prorogation was poor HQ people got on edge. Then when it improved there was a pile up. This year the traffic passed regularly and smoothly. For Ken Delp and all of the Iditarod staff this is Daniel Stevens saying "THANKS".

AARC ACTIVITY MANAGER
DANIEL STEVENS

THE VEC BOARD

The V.E.C. Board met on March 16th, March 31st and April 14th, 1984. A summary of our activities follows:

The function of this board is to:

1. Recruit Volunteer Examiners.
2. Issue accreditation documents to accredited V.E.'s.
3. Coordinate examination sessions.
4. Notify FCC of exam sessions 30 days in advance of exams.
5. Provide application forms to Volunteer Examiners.
6. Provide written exam materials. (The FCC provides the questions, the V.E.C. researches the answers.)
7. Provide telegraphy exam materials.
8. Provide Certificates of Successful Completion of Exams.
9. Establish examination session unique identifier.
10. Collect test materials.
11. Screen applications and resolve defects.
12. Compile exam session test reports.
13. Forward application to the FCC.
14. Maintain record keeping system.
15. Provide annual question evaluation reports.

Please let someone on the V.E.C. Board know if you have anything to add or if you need more information. Board members are: Dave Vogel NL7P; Roger Hanson KL7HFQ, Tim Michael NL7D and Joyce Curman KL7MQ.

--Joyce Curman KL7MQ

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Tim Pettis, KL7WE 276-1977
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-A Y.L.'s POINT OF VIEW-

Hello! from a fairly new YL in the club. Let me tell you a little about myself. I came to Alaska from Mich. by way of Cal. I have been here almost 13 yrs. I live in Palmer, work in Anchorage. I have a 16 yr old daughter, Kathleen. My folks were hams and I've always been interested, but all those obstacles kept getting in the way. I learned code from KL7HFQ while working at the Municipality.



My ham career was launched further when I took a novice course from a couple hams in the valley while working at the Federal Building. I met the "ole railroadie" and then I began the real push to get my licenses. When I found out that I could work on the Sr. Iditarod when I was a novice, I was ecstatic. My job was to count the dogs as they left the chute. So. . .you novices outthere who think you're not eligible to work on anything, speak up and see what happens. Since then, I've worked the Arts Fair, Fur Rondy, Lazy Mt. Marathon, held checkpoints on the Jr. and Sr. Iditarods. This March, I held a checkpoint at Ruby and so far it has been the highlight of my activities in the club.

When I arrived in Ruby, it finally sunk in that "this is it kid, do it!" AL7AW was helpful in lending me 2 dipoles & some coax. I chose what I thought was the easier one to put up - wrong! I found two "Rubians" to help. I turned on the HF, fully believing it wouldn't work, but lo and behold. . .noise and signals! - the most beautiful sound I ever heard. I couldn't reach Anch. so I took my Handi-Talkie with a 5/8 antenna & ran to the top of the hill. I could reach Anchorage intermittently. I did this about 6 times in an hour. If I'd kept it up, I'd be a lot skinnier by now. My first day in Ruby, I found KL7KV who helped me put up my 2m beam. The bands on HF opened up on the 3rd day, but I still had to relay to Anchorage. Many thanks to KL7GNP and the other hams who relayed for me. I stayed in the community hall, the place of the steak dinner. That night I got about one hours sleep - people & mushers were everywhere. The checkers were great & we worked well together. Definitely it was one of the best and most interesting vacations I've had. I want to do it again next year.

Have been on HF since the beginning of Feb. & have net control on 40 meters on M.A.R.S. each Tues. Living in Palmer, I don't get to attend too many of the social functions, but I'll try harder. The PARKA April meeting is cancelled. The meeting in May will be in old Woodland Park grade sch. at 2300 W. 36th, near Minnesota Drive on the 21st at 7:30 p.m.

(continued)

A Y.L.'s POINT OF VIEW - CONTINUED -

Upgrades in Ham Radio: Rose Banse - Tech., Carolyn Evans - General, Bonnie Jennings - Tech., Mary Laws - Tech., Lillian Marvin - Tech., Ann Gibson - Tech., Nancy Pieniadz - Tech. Congratulations! If I've forgotten anyone, please forgive me, it wasn't intentional. We've all been waiting to see who would get the KL7YL call - - it goes to Vivian Johnson (WB0QIG).

Don't forget Mothers Day on the 12th and 13th of May. Need lots of volunteers. If you've never done anything like this before, come on down to the Sears Mall! There will be something for you to do.

73,
Sharon, KL7VL
271-5610 or 745-4352

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